NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Basin Dakota__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __March 16, 1962__

Company __Pan American Petroleum Corp.__ Lease __Roberts Gas Unit "B"__ Well No. __1__

Unit __A__ Sec. __14__ Twp. __29N__ Rge. __13W__ Purchaser_____

Casing __4-1/2__ Wt. __10.5__ I.D._____ Set at __6005__ Perf. __5912__ To __5918__

Tubing __2-3/8__ Wt. __4.7__ I.D. __1.995__ Set at __5922__ Perf._____ open ended at To __5922__

Gas Pay: From __5912__ To __5918__ L __5915__ xG __.700__ -GL __4141__ Bar.Press. __12__

Producing Thru: Casing_____ Tubing __X__ Type Well __single__

Date of Completion: __March 9, 1962__ Packer_____ Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp._____

OBSERVED DATA

Tested Through ___(Choke)___ Type Taps_____

No.	Flow Data (Line) Size	(Choke) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI	7 day shut in					1935		2055		
1.	2 inches	3/4"	166			225		906		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12,3650		176	1.000	.9238	1.022	2083
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio_____ cf/bbl.
Gravity of Liquid Hydrocarbons_____ deg.
F_c_____ $(1-e^{-s})$_____

Specific Gravity Separator Gas_____
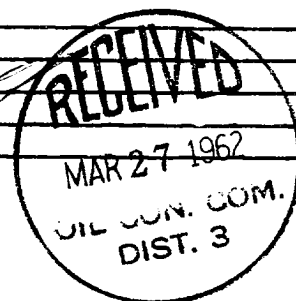Specific Gravity Flowing Fluid_____
P_c __2067__ P_c^2 __4,272,489__

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$\dfrac{(F_c Q)^2}{(1-e^{-s})}$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\dfrac{P_w}{P_c}$
1.	518					268,324	4,004,165		
2.									
3.									
4.									
5.									

Absolute Potential: __2157__ MCFPD; n __0.75__
COMPANY __Pan American Petroleum Corporation__
ADDRESS __Box 480, Farmington, New Mexico__
AGENT and TITLE __F. J. Foell, Petroleum Engineer__
WITNESSED_____
COMPANY_____

RECEIVED
MAR 27 1962
OIL CON. COM.
DIST. 3

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

$Q =$ Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

$P_c =$ 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

$P_w =$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

$P_t =$ Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

$P_f =$ Meter pressure, psia.

$h_w =$ Differential meter pressure, inches water.

$F_g =$ Gravity correction factor.

$F_t =$ Flowing temperature correction factor.

$F_{pv} =$ Supercompressability factor.

$n =$ Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.